



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.10/KRIDL/CEMENT/2014-15



Date: 14.07.2014

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	Technical Manager, KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains at Anantha Padmanabha Layout in Ward No.10, BBMP, Bangalore.
REFERENCE	:	EE/BTP/KRIDL/W.O/469/2013-14 Dated: 21.02.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	31.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.10/KRIDL/SAND/2014-15



: 14.07.2014

TEST REPORT ON FINE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of Work : Improvements to roads and drains at Anantha Padmanabha Layout in Ward No.10, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/469/2013-14 Dated: 21.02.2014

Date of Testing : 14.07.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	45	4.50	4.50	95.5	90-100
2.36	165	16.50	21.00	79.0	75-100
1.18	220	22.00	43.00	57.0	55-90
600 Micron	183	18.30	61.30	38.7	35-59
300 Micron	156	15.60	76.90	23.1	8-30
150 Micron	185	18.50	95.40	4.6	0-10

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Job No: CTCE/BBMP/W.No.10/KRIDL/AGG/2014-15



: 14.07.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of Work : Improvements to roads and drains at Anantha Padmanabha Layout in Ward No.10, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/469/2013-14 Dated: 21.02.2014

Date of Testing : 14.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	330	3.30	3.30	96.70	95-100
20	5545	55.45	58.75	41.25	30-70
10	2515	25.15	83.90	16.10	10-35
4.75	1300	13.00	96.90	3.10	0-5

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Job No.: CTCE/BBMP/W.No.10/KRIDL /STEEL/2014-15

16.07.2014



TEST REPORT ON REINFORCEMENT STEEL

Client : **Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager**, KRIDL, Bangalore.

Name of the Work : Improvements to roads and drains at Anantha Padmanabha Layout in Ward No.10, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/469/2013-14 Dated: 21.02.2014

Date of Test : 16.07.2014

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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16.07.2014



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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.30	O.K	O.K

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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.50	O.K	O.K

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15.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager**, KRIDL, Bangalore.

Name of the work : Improvements to roads and drains at Anantha Padmanabha Layout in Ward No.10, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/469/2013-14 Dated: 21.02.2014

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.07.2014	15.08.2014	8.156	482.3	21.44
2	18.07.2014	15.08.2014	8.263	496.3	22.06
3	18.07.2014	15.08.2014	8.342	519.3	23.08

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Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

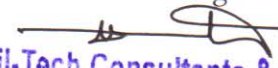
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.07.2014	18.08.2014	8.125	474.9	21.11
2	21.07.2014	18.08.2014	8.260	489.3	21.75
3	21.07.2014	18.08.2014	8.330	512.3	22.77

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20.08.2014

TEST REPORT ON CONCRETE CUBES

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Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

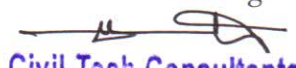
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.07.2014	20.08.2014	8.139	489.3	21.75
2	23.07.2014	20.08.2014	8.265	510.3	22.68
3	23.07.2014	20.08.2014	8.345	526.4	23.40

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